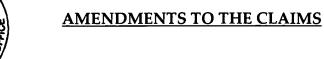
Application No. 10/533,134 Docket No.: M1071.1929

Amendment dated October 13, 2006
Reply (Conference Action of August 31, 2006)

anceled)



2. (Currently amended) <u>A</u> The twisted waveguide according to Claim 1, comprising:

first and second rectangular propagation path elements having different planes of polarization; and

a connection element connecting the first and second rectangular propagation path elements,

wherein the connection element has a fixed line length in a direction of electromagnetic-wave propagation of the first and second rectangular propagation path elements, and wherein the connection element includes projections which project inward so as to face each other, the projections concentrating an electric field of an electromagnetic wave entering from the first or second rectangular propagation path element and rotating a plane of polarization of the electromagnetic wave propagating through the connection element, and

wherein an inner periphery of the connection element surrounding a central axis extending in the direction of electromagnetic-wave propagation of the first and second rectangular propagation path elements includes surfaces substantially parallel to an H plane and an E plane of the first rectangular propagation path element, said surfaces forming a staircase such that abutting sections between the surfaces parallel to the H plane and the surfaces parallel to the E plane form the projections, the staircase being inclined in a direction corresponding to a direction in which an H plane of the second rectangular propagation path element is inclined.

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3. (Previously presented) The twisted waveguide according to Claim 2, wherein the projections comprise two projections provided at two positions, wherein a plane extending between the two projections is inclined towards an E plane of the second rectangular propagation path element with respect to the E plane of the first rectangular propagation path element.

- 4. (Currently amended) The twisted waveguide according to Claim 1 Claim 2, wherein the line length of the connection element in the direction of electromagnetic-wave propagation is substantially 1/2 of a guide wavelength with respect to a frequency of an electromagnetic wave to be propagated through the connection element.
- 5. (Currently amended) The twisted waveguide according to Claim 1 Claim 2, wherein the connection element comprises a plurality of subelements disposed at multiple positions in the direction of electromagnetic-wave propagation.
- 6. (Currently amended) A wireless device comprising the twisted waveguide according to Claim 1 Claim 2; and an antenna connected to one of the first and second rectangular propagation path elements included in the twisted waveguide.